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[1. AF141-015: Strategic Collection for Rapid Return to Continuous Monitoring for Deep Space Wide Area Search and Tasked Sensors](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop collection CONOPs and software prioritized at GEO (extending as possible to other regimes) using optical telescopes to maintain custody of objects, and detect and revisit new objects that enter the space. DESCRIPTION: The potential exists to maintain consistent awareness of all man-made objects extending to Geosynchronous Earth Orbits (GEOs) and super-synchronous regimes b ...

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[2. AF141-016: Persistent Wide Field Space Surveillance](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: To develop and demonstrate innovative, scalable approach to space object detection that permits the detection of dim orbiting objects using a very wide field of view, non-articulated sensor system architecture. DESCRIPTION: Conceive an approach to this challenging field of dim object detection/wide field of view (FOV) surveillance that exploits recent developments in sensors and d ...

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[3. AF141-019: Battlefield Airmen \(BA\) Mission Recorder](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate a device that can record essential information from special operations missions in order to perform mission analysis/debriefing, enhance operational procedures, and improve BA training and mission rehearsals. DESCRIPTION: Battlefield Airmen missions range from Close Air Support, to field surveys, to direct combat. These special operations are typically hig ...

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[4. AF141-020: Improved Computerized Ground Forces for Close Air Support Training](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate intelligent agents to interact within a computer generated forces suite for training aid use in Joint Terminal Attack Controller Training simulated environment. DESCRIPTION: In current military operations our missions have become more complex and dynamic than they have been in the past. Given the nature of current operations the requirements for training an ...

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5. [AF141-021: Holographic Lightfield 3D Display Metrology \(HL3DM\)](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop test and evaluation methodology for holographic lightfield 3D displays with an automated measurement system to support comparisons of prototypes emerging from research, to enable robust calibration, and to perform product acceptance testing. DESCRIPTION: Advanced FoLD 3D visualization systems, that enable multi-user full-parallax viewing of complex 3D data without eyewea ...

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6. [AF141-023: Voice-Enabled Agent for Realistic Integrated Combat Operations Training](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate a voice-enabled intelligent agent to improve the realism of integrated combat operations training and rehearsal within the Air Support Operations Center. DESCRIPTION: In today"s asymmetric combat operations, the integration and interoperability of various mission areas of the Command and Control domain is growing. The state-of-the-art in training and depl ...

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7. [AF141-024: Adaptive Screen Materials for Image Projection](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Research and develop a means of changing the gain of screen materials used for front-projected imagery in large-scale immersive simulation environments. DESCRIPTION: In immersive training simulation environments, the primary stimuli presented to participants consists of visual imagery or cues. Some large-scale simulation environments are configured such that the imagery is front ...

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8. [AF141-025: Adaptive Instruction Authoring Tools](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate tools that will allow subject matter experts (SMEs), instructional system designers (ISDs) and software engineers to produce simulation-based intelligent tutors and adaptive instruction more efficiently. DESCRIPTION: The impact of intelligent tutoring systems and other forms of adaptive training technologies for promoting learning and subsequent performa ...

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9. [AF141-026: Distributed Mission Operations Gateway](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a DIS/HLA gateway to permit a variety of non-simulation standardized trainers to integrate with and operate on the Distributed Mission Operations Network (DMON) for training exercises. DESCRIPTION: The Air Force uses a variety of training systems and simulators for space Command and Control (C2) operator training. These systems and simulators are "stove-piped," in that th ...

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10. [AF141-027: Operator Interface for Flexible Control of Automated Sensor Functions](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop/evaluate a multiple unmanned air vehicle interface prototype that increases transparency of automated sensor systems and enables intuitive operator interactions to direct/tailor sensor operations in response to dynamic mission requirements. DESCRIPTION: Automation is becoming a critical element of intelligence, surveillance, and reconnaissance (ISR) operations. Automatic ...

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